WHAT IS CLAIMED IS:

	i	1.	A method for modulating expression of a manimalian SREBF-1 gene,			
:	2	the method comprising	g administering a modulator compound that promotes or inhibits			
	3	$LXR\alpha$ -mediated expression of the SREBP-1 gene to a cell that comprises an SREBP-1 gene				
4	4	and an LXRa polypep	tide.			
	1	2.	The method of claim 1, wherein the modulator commound is an aganist			
	1		The method of claim 1, wherein the modulator compound is an agonist			
-	2	of LXRα and promote	s LXRα-mediated expression of the SREBP-1 gene.			
	1		The method of claim 1, wherein the modulator compound promotes or			
	2	inhibits LXRα-mediat	ed expression of the SREBP-1c transcript.			
L! L!	1	4.	The method of claim 2, wherein the modulator compound is 24,25-			
IJ	. /		The method of claim 2, wherein the modulator compound is 24,25			
7= 1 11	2 (epoxycholesterol.				
The part was the Self-April Self-Print and the part of	1	5.	The method of claim 1, wherein the modulator compound is an			
=1 2	2	antagonist of LXRα ar	nd inhibits LXRα-mediated expression of the SREBP-1 gene.			
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II B & Stor B B Goog B B B III II	1	6.	The method of claim 5, wherein the cell further comprises one or more			
# 2	2	genes that encode an enzyme involved in fatty acid and triglyceride metabolism and				
-) -:	3	contacting the cell with	n the modulator compound inhibits expression of one or more of the			
4	4	genes that encode an e	nzyme involved in fatty acid and triglyceride metabolism.			
,	1	. 7	The weether deef element redomning the communication for fetter acid and			
	l		The method of claim 1, wherein the enzyme involved in fatty acid and			
2		triglyceride metabolism is selected from the group consisting of fatty acid synthase, acetyl				
3	3	CoA carboxylase, steroyl CoA desaturase, and lipoprotein lipase.				
1	l	8.	The method of claim 1, wherein the cell is in a mammal.			
1	l	9.	The method of claim 8, wherein the mammal is a human.			
	•	7.	The method of etaim 6, wherein the maintain is a naman.			
1	l	10.	The method of claim 8, wherein the modulator compound is an			
2	2	antagonist of LXRα ar	nd triglyceride levels in the mammal are reduced.			
1	ì	11.	The method of claim 8, wherein the modulator compound is an			
2	2	antagonist of LXRα an	nd insulin levels in the mammal are reduced.			

1	12. A method of modulating triglyceride levels in a mammal, the method		
2	comprising administering to the mammal an effective amount of a modulator compound that		
3	inhibits LXR α -mediated expression of an SREBP-1 gene in cells of the mammal.		
1	13. The method of claim 12, wherein mammal is a human.		
1	14. A method of prescreening to identify a candidate therapeutic agent that		
2	modulates SREBP-1 expression in a mammal, the method comprising:		
3	providing a reaction mixture which comprises:		
4	a polypeptide that comprises an LXRα ligand binding domain		
,== 5	(LBD);		
116	a ligand for LXR α ; and		
11) 11:7	a test compound; and		
# 8	determining whether the amount of LXR α ligand that binds to the LBD		
7 2 8 2 9 1 10	is increased or decreased in the presence of the test compound relative to the amount of		
[] , 10	ligand that binds to the LBD in the absence of the test compound;		
1	wherein a test compound that causes an increase or decrease in the		
12	amount of LXRα ligand binding to the LBD is a candidate therapeutic agent for modulation		
#12 #13 #13 #13 #14 #14 #14	of SREBP-1 expression in a mammal.		
1	15. The method of claim 15, wherein the method further comprises		
2	administering the candidate therapeutic agent to a cell which comprises a SREBP-1 gene to		
3	determine whether the candidate therapeutic agent modulates expression of the SREBP-1		
4	gene in the cell, and/or expression of a gene that is regulated by SREBP-1.		
1	16. The method of claim 15, wherein the gene that is regulated by SREBP-		
2	1 encodes an enzyme involved in fatty acid and/or triglyceride metabolism.		
1	17. The method of claim 16, wherein the enzyme involved in fatty acid		
2	and/or triglyceride metabolism is selected from the group consisting of fatty acid synthase,		
3	acetyl CoA carboxylase, steroyl CoA desaturase, and lipoprotein lipase.		
1	18. The method of claim 15, wherein the gene that is regulated by SREBP-		
2	1 encodes an enzyme involved in adipocyte differentiation.		

	1	19.	The method of claim 15, wherein the cell is in a mammal.
	1	20.	The method of claim 14, wherein the ligand for LXR α is a peptide
	2	sensor.	
	1	21.	The method of claim 20, wherein the peptide sensor is derived from an
	2	RXR.	
	1	22.	The method of claim 20, wherein the peptide sensor is derived from a
	2	coactivator or corep	ressor.
	1	23.	The method of claim 22, wherein the coactivator is SRC-1 or NCOR.
TALL TOTAL	1	24.	The method of claim 20, wherein the peptide sensor is derived from a
H. Harli Harli Jani, n. mar. et .c. n. H. Harli Harli Jani, alpen Harli	2	coactivator and com	prises an amino acid sequence LXXLL, where X is any amino acid.
44	1	25.	The method of claim 20, wherein the peptide sensor is derived from a
1	2	corepressor and com	prises an amino acid sequence IXXII, where X is any amino acid.
	1	26.	The method of claim 20, wherein the peptide sensor comprises a
	2	detectable label.	
	1	27.	The method of claim 14, wherein the ligand for LXR α is a coactivator
	2	or corepressor.	
	1	28.	The method of claim 14, wherein the ligand for LXRa is an oxysterol.
	1	29.	The method of claim 28, wherein the oxysterol is 24,25-
	2	epoxycholesterol.	
	1	30.	The method of claim 14, wherein the amount of binding is determined
	2	using a FRET assay.	
	1	31.	The method of claim 14, wherein the amount of binding is determined
	2	using a fluorescence	polarization assay.
	1	32.	The method of claim 14, wherein the amount of binding is determined

using ELISA.

1 33. The method of claim 14, wherein the amount of binding is determined 2 using a direct binding assay. A method for ameliorating a condition associated with abnormal 1 34. 2 SREBP-1 expression in a mammal, the method comprising administering to the mammal a 3 therapeutically effective amount of a LXR\alpha antagonist. The method of claim 34, wherein the condition associated with 1 35. 2 abnormal SREBP-1 expression is hypertriglyceridemia. 1 36. The method of claim 34, wherein the condition associated with abnormal SREBP-1 expression is lipodystrophy. 37. The method of claim 36, wherein the lipodystrophy is congenital generalized lipodystrophy. 38. The method of claim 34, wherein the condition associated with abnormal SREBP-1 expression is insulin resistance. 39. The method of claim 34, wherein the condition associated with abnormal SREBP-1 expression is an elevated plasma insulin level. 40. The method of claim 34, wherein the condition associated with 1 2 abnormal SREBP-1 expression is hyperglycemia and/or diabetes mellitus. 1 41. The method of claim 34, wherein the condition associated with abnormal SREBP-1 expression is a syndrome associated with treatment of AIDS by 2 3 administration of an HIV protease inhibitor, which syndrome is characterized by one or more

of lipodystrophy, insulin resistance and hyperlipidemia.

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